

?

S IMAGE OR DIGITAL OR VIDEO OR JPEG

1948821 IMAGE

1628266 DIGITAL

444952 VIDEO

17524 JPEG

S27 3588296 IMAGE OR DIGITAL OR VIDEO OR JPEG

?

S S27 OR AUDIO

3588296 S27

139725 AUDIO

S28 3656918 S27 OR AUDIO

?

S S27 AND (COMPRESSION???)

3588296 S27

681522 COMPRESSION???

S29 133681 S27 AND (COMPRESSION???)

?

S S29 NOT PY&gt;=2004

133681 S29

10046604 PY&gt;=2004

S30 110314 S29 NOT PY&gt;=2004

?

S S30 AND ((HIGH OR LOW) (3N) FREQUENCY)

Processing

Processed 10 of 20 files ...

Completed processing all files

110314 S30

10540287 HIGH

6227708 LOW

3097224 FREQUENCY

651877 (HIGH OR LOW) (3N) FREQUENCY

S31 1855 S30 AND ((HIGH OR LOW) (3N) FREQUENCY)

?

S S31 AND COEFFICIENT???

1855 S31

1991334 COEFFICIENT???

S32 530 S31 AND COEFFICIENT???

?

S S31 AND (FILTERING (2N) COEFFICIENT???)

1855 S31

337073 FILTERING

1991334 COEFFICIENT???

619 FILTERING (2N) COEFFICIENT???

S33 1 S31 AND (FILTERING (2N) COEFFICIENT???)

?

T S33/FULL/1

33/9/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

08354727 INSPEC Abstract Number: B2002-09-6130C-005

**Title:** Low **bit-rate time-** frequency coding of wideband audio signals

**Author(s):** Umapathy, K.; Krishnan, S.

**Author Affiliation:** Dept. of Electr. & Comput. Eng., Ryerson Polytech. Inst., Toronto, Ont., Canada

**Conference Title:** Proceedings of the IASTED International Conference Signal Processing, Pattern Recognition, and Applications p.101-6

**Editor(s):** Hamza, M.H.

**Publisher:** ACTA Press, Anaheim, CA, USA

**Publication Date:** 2001 **Country of Publication:** USA iv+277 pp.

**ISBN:** 0 88986 293 1 **Material Identity Number:** XX-2001-00839

**Conference Title:** Proceedings of Signal Processing, Pattern Recognition and Applications (SPPRA 2001)

**Conference Sponsor:** IASTED

**Conference Date:** 3-6 July 2001 **Conference Location:** Rhodes, Greece

**Language:** English **Document Type:** Conference Paper (PA)

**Treatment:** Theoretical (T); Experimental (X)

**Abstract:** Wideband audio signals in **digital** format have a very high data-rate associated with them. Multimedia applications constantly drive the need for low bit-rate high quality audio coders for efficient utilization of channel bandwidth and storage. This paper deals with the development of such a low-bit rate high quality audio coder where the joint time-frequency properties of the nonstationary nature of the audio signal are exploited in creating energy compaction of the signal into fewer coefficients. A novel method for perceptual **filtering** of decomposition **coefficients** is developed. High **compression** ratios in the range of 7 to 30 were obtained for a set of 8 sample audio files of different characteristics. (8 Refs)

**Subfile:** B

**Descriptors:** acoustic signal processing; audio coding; data **compression**; filtering theory; pattern matching; time-frequency analysis

**Identifiers:** wideband audio signals; **digital** signals; data rate; multimedia applications; low bit-rate audio coders; high quality audio coder; nonstationary audio signal; energy compaction; perceptual filtering; decomposition coefficients; **compression** ratios; time-frequency signal analysis; matching pursuit; Gabor functions; psychoacoustics

**Class Codes:** B6130C (Speech and audio coding); B0220 (Mathematical analysis); B6140B (Filtering methods in signal processing)

Copyright 2002, IEE

?

## Welcome to DialogClassic Web(tm)

Dialog level 05.13.02D

Logon file001 05dec06 11:25:26

\*\*\* ANNOUNCEMENTS \*\*\*

\*\*\*

## NEW FILES RELEASED

\*\*\*Engineering Index Backfile (File 988)

\*\*\*Verdict Market Research (File 769)

\*\*\*EMCare (File 45)

\*\*\*Trademarkscan - South Korea (File 655)

## RESUMED UPDATING

\*\*\*File 141, Reader's Guide Abstracts

\*\*\*

## RELOADS COMPLETED

\*\*\*Files 340, 341 &amp; 942, CLAIMS/U.S. Patents - 2006 reload now online

\*\*\*Files 173 &amp; 973, Adis Clinical Trials Insight

\*\*\*File 11, PsycInfo

\*\*\*File 531, American Business Directory

\*\*\*

## DATABASES REMOVED

\*\*\*File 196, FINDEX

\*\*\*File 468, Public Opinion Online (POLL)

Chemical Structure Searching now available in Prous Science Drug

Data Report (F452), Prous Science Drugs of the Future (F453),

IMS R&amp;D Focus (F445/955), Pharmaprojects (F128/928), Beilstein Facts (F390), Derwent (File 302).

\*\*\*

&gt;&gt;&gt;For the latest news about Dialog products, services, content&lt;&lt;&lt;

&gt;&gt;&gt;and events, please visit What's New from Dialog at &lt;&lt;&lt;

>>><http://www.dialog.com/whatsnew/>. You can find news about<<<

&gt;&gt;&gt;a specific database by entering HELP NEWS &lt;file number&gt;.&lt;&lt;&lt;

\* \* \*

File 1:ERIC 1965-2006/Nov

(c) format only 2006 Dialog

\*File 1: ERIC has been reloaded effective Dec 1, 2006.

Accession numbers have changed.

Set Items Description

--- -----

Cost is in DialUnits

?

## B EECOMP

&gt;&gt;&gt; 108 is unauthorized

&gt;&gt;&gt;1 of the specified files is not available

05dec06 11:26:23 User291903 Session D1.1

\$0.83 0.238 DialUnits File1

\$0.83 Estimated cost File1

\$0.26 INTERNET

\$1.09 Estimated cost this search

\$1.09 Estimated total session cost 0.238 DialUnits

## SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1898-2006/Nov W4

(c) 2006 Institution of Electrical Engineers

File 6:NTIS 1964-2006/Nov W3

(c) 2006 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2006/Nov W4

(c) 2006 Elsevier Eng. Info. Inc.

**\*File 8: The file has been reprocessed and accession numbers have changed. See HELP NEWS988 for details.**

File 25:Weldasearch 1966-2006/Nov

(c) 2006 TWI Ltd

File 34:SciSearch(R) Cited Ref Sci 1990-2006/Nov W4

(c) 2006 The Thomson Corp

File 36:MetalBase 1965-20061202

(c) 2006 The Thomson Corporation

File 46:Corrosion Abstracts 1966-2006/Nov

(c) 2006 CSA.

File 56:Computer and Information Systems Abstracts 1966-2006/Nov

(c) 2006 CSA.

File 57:Electronics & Communications Abstracts 1966-2006/Nov

(c) 2006 CSA.

File 65:Inside Conferences 1993-2006/Dec 04

(c) 2006 BLDSC all rts. reserv.

File 92:IHS Intl.Stds.& Specs. 1999/Nov

(c) 1999 Information Handling Services

File 94:JICST-EPlus 1985-2006/Aug W3

(c)2006 Japan Science and Tech Corp (JST)

File 95:TEME-Technology & Management 1989-2006/Nov W4

(c) 2006 FIZ TECHNIK

File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Oct

(c) 2006 The HW Wilson Co.

File 103:Energy SciTec 1974-2006/Sep B1

(c) 2006 Contains copyrighted material

**\*File 103: For access restrictions see Help Restrict.**

File 104:AeroBase 1999-2006/Dec

(c) 2006 Contains copyrighted material

File 144:Pascal 1973-2006/Nov W1

(c) 2006 INIST/CNRS

File 239:Mathsci 1940-2006/Jan

(c) 2006 American Mathematical Society

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 2006 The Thomson Corp

File 647:CMP Computer Fulltext 1988-2006/Jan W4

(c) 2006 CMP Media, LLC

Set	Items	Description
---	-----	-----

?

S PICTURE? ? OR VIDEO? ? OR JPEG???? OR PIXEL? ?

395044 PICTURE? ?

450166 VIDEO? ?

20377 JPEG????

179672 PIXEL? ?

S1 965284 PICTURE? ? OR VIDEO? ? OR JPEG???? OR PIXEL? ?

?

COMPRESSION???? OR TRUNCATION? ? OR STADARD???????? OR LIMIT OR REDUCTION OR REDUCE  
>>>Invalid syntax at or near: OMPRESSION????

?

S COMPRESSION???? OR TRUNCATION? ? OR STADARD???????? OR LIMIT OR REDUCTION OR REDUC  
Processing

Processed 10 of 20 files ...

Completed processing all files

681648 COMPRESSION????

55636 TRUNCATION? ?  
 142 STADARD?????????  
 1089170 LIMIT  
 2320480 REDUCTION  
 1141903 REDUCE  
 923836 CUT????  
 S2 5802199 COMPRESSION???? OR TRUNCATION? ? OR STADARD????????? OR  
 LIMIT OR REDUCTION OR REDUCE OR CUT????

?

?

S (HIGH OR LOW) (5N) FREQUENCY  
 Processing  
 Processed 10 of 20 files ...  
 Completed processing all files  
 10540287 HIGH  
 6227708 LOW  
 3097224 FREQUENCY  
 S3 684441 (HIGH OR LOW) (5N) FREQUENCY

?

BITS OR BIT OR BYTE OR BYTES OR (BIT (3N) PLANE) OR (BIT (3N) MATRIX)  
 >>>"ITS" is not a valid category or service name  
 >>>"OR" is invalid in a filelist.

?

S BITS OR BIT OR BYTE OR BYTES OR (BIT (3N) PLANE) OR (BIT (3N) MATRIX)  
 99298 BITS  
 401794 BIT  
 18501 BYTE  
 18511 BYTES  
 401794 BIT  
 1163019 PLANE  
 1874 BIT(3N) PLANE  
 401794 BIT  
 1846566 MATRIX  
 1178 BIT(3N) MATRIX  
 S4 484176 BITS OR BIT OR BYTE OR BYTES OR (BIT (3N) PLANE) OR (BIT  
 (3N) MATRIX)

?

S PIPELINE OR PIPE (2N) LINE OR PREPROCESSING OR PRE (2N) PROCESSING OR PARALLEL OR  
 165419 PIPELINE  
 397641 PIPE  
 2570809 LINE  
 27252 PIPE(2N) LINE  
 34562 PREPROCESSING  
 676275 PRE  
 3848033 PROCESSING

15608 PRE (2N) PROCESSING  
 1335977 PARALLEL  
 246673 CONCURRENT????  
 S5 1763001 PIPELINE OR PIPE (2N) LINE OR PREPROCESSING OR PRE (2N)  
 PROCESSING OR PARALLEL OR CONCURRENT????

?

S ENCODER? ? OR PROCESSOR? ? OR DECODER? ? OR CPU OR CIRCUIT

42703 ENCODER? ?  
 464319 PROCESSOR? ?  
 59383 DECODER? ?  
 76745 CPU  
 1502995 CIRCUIT  
 S6 2049286 ENCODER? ? OR PROCESSOR? ? OR DECODER? ? OR CPU OR  
 CIRCUIT

?

S S1 OR IMAGE? ?

965284 S1  
 2468169 IMAGE? ?  
 S7 3051949 S1 OR IMAGE? ?

?

S S6 OR COPROCESSOR? ? OR CO (2N) PROCESSOR? ?

2049286 S6  
 9582 COPROCESSOR? ?  
 1947542 CO  
 464319 PROCESSOR? ?  
 3461 CO (2N) PROCESSOR? ?  
 S8 2053021 S6 OR COPROCESSOR? ? OR CO (2N) PROCESSOR? ?

?

S S2 AND S3

5802199 S2  
 684441 S3  
 S9 83773 S2 AND S3

?

S S9 AND S7

83773 S9  
 3051949 S7  
 S10 6660 S9 AND S7

?

S S10 AND S4

6660 S10  
 484176 S4  
 S11 924 S10 AND S4

?

S S11 AND S8

924 S11  
 2053021 S8  
 S12 282 S11 AND S8

?

RD S12

>>>Record 647:1016038 incomplete bibliographic data - record retained in RD set  
 >>>Record 647:632799 incomplete bibliographic data - record retained in RD set  
 >>>Record 647:590726 incomplete bibliographic data - record retained in RD set

>>>Record 647:563445 incomplete bibliographic data - record retained in RD set  
>>>Record 647:508976 incomplete bibliographic data - record retained in RD set  
>>>Record 647:508200 incomplete bibliographic data - record retained in RD set  
S13 174 RD S12 (unique items)

?

S S12 AND S5

282 S12  
1763001 S5  
S14 64 S12 AND S5

?

RD

>>>Record 647:508200 incomplete bibliographic data - record retained in RD set.  
S15 56 RD (unique items)

?

S S15 NOT PY>=2004

56 S15

10046604 PY>=2004

S16 49 S15 NOT PY>=2004

?